WHAT IS CLAIMED IS:

1. A compound of the structure

I

wherein n_1 is 1 to 5; m is 1 to 3;

X is O or NH;

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R is selected from the group consisting of hydrogen, a straightchain aliphatic group, a branched-chain aliphatic group and an alicyclic group; and

R' is selected from the group consisting of hydrogen, methyl and ethyl;

or a pharmaceutically acceptable salt thereof.

2. The compound of claim 1, which is 2,2',2"nitrilotrisethyl trisbutyrate or a pharmaceutically acceptable salt
20 thereof.

3. A pharmaceutical composition, comprising a compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

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4. The pharmaceutical composition of claim 3, wherein said compound is is 2,2',2"-nitrilotrisethyl trisbutyrate or a pharmaceutically acceptable salt thereof.

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5. The compound of the structure

II

wherein n_1 is 1-5;

X is O or NH;

Y is CH₂, O, S, or NR;

wherein R is selected from the group consisting of hydrogen, a straight-chain aliphatic group, a branched-chain aliphatic group and an alicyclic group; and

R' is selected from the group consisting of hydrogen, methyl and 5 ethyl;

wherein when X is O and Y is O, n_1 is not 1; or a pharmaceutically acceptable salt thereof.

- 10 6. The compound of claim 5, which is 2-(4-morpholinyl)ethyl butanamide.
- 7. A pharmaceutical composition, comprising a compound of claim 5 and a pharmaceutically acceptable carrier or diluent.
- 8. The pharmaceutical composition of claim 7, wherein 20 said compound is 2-(4-morpholinyl)ethyl butanamide or a pharmaceutically acceptable salt thereof.

9. The compound of the structure

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$$H_3C-CH_2-CH_2-C-N$$
 $N-(CH_2)_{n_1}-CH-X-C-CH_2-CH_2-CH_3$

III

wherein n_1 is 1 to 5; n_2 is 1 to 4;

R' is selected from the group consisting of hydrogen, methyl and 10 ethyl; and

X is O or NH;

or a pharmaceutically acceptable salt thereof.

- 10. The compound of claim 9, which is 2-(4-butanoylpiperazinyl)ethyl butanoate.
- 11. A pharmaceutical composition, comprising a compound of claim 9 and a pharmaceutically acceptable carrier or diluent.

12. The pharmaceutical composition of claim 11, wherein said compound is 2-(4-butanoylpiperazinyl)ethyl butanoate or a pharmaceutically acceptable salt thereof.

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13. The compound of structure

IV

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wherein n_2 is 1 to 4;

X is O or NH;

R is selected from the group consisting of hydrogen, a straight-15 chain aliphatic group, a branched-chain aliphatic group and an alicyclic group; and

R' is selected from the group consisting of hydrogen, methyl and ethyl;

wherein X and R' are independently optionally substituted at C2, 20 C3 or C4;

or a pharmaceutically acceptable salt thereof.

- 14. The compound of claim 13, which is 1-methyl-4-piperidinyl butanoate.
- 5 15. A pharmaceutical composition, comprising a compound of claim 13 and a pharmaceutically acceptable carrier or diluent.
- 16. The pharmaceutical composition of claim 15, wherein said compound is 1-methyl-4-piperidinyl butanoate or a pharmaceutically acceptable salt thereof.
- 17. A method of inactivating antigen-specific T cells in an individual in need of such treatment, comprising the step of administering to said individual an effective amount of a compound of structure

$$R' = O$$

$$R_{3-m}N - (CH_2)_{n_1} - CH - X - C - CH_2 - CH_2 - CH_3)_{m}$$

I

wherein n_1 is 1 to 5; m is 1 to 3;

X is O or NH;

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R is selected from the group consisting of hydrogen, a straightchain aliphatic group, a branched-chain aliphatic group and an alicyclic group; and

R' is selected from the group consisting of hydrogen, methyl and ethyl;

or a pharmaceutically acceptable salt thereof.

- 18. The method of claim 17, wherein said compound is 2,2',2"-nitrilotrisethyl trisbutyrate or a pharmaceutically acceptable salt thereof.
- 19. The method of claim 17, wherein inactivation of antigen-specific T cells is useful in the prophylaxis or therapeutic treatment of autoimmune diseases, disorders involving an autoimmune component or neoplastic diseases.
- 20. The method of claim 19, wherein said autoimmune 20 diseases are selected from the group consisting of rheumatoid arthritis, systemic lupus erythematosus, diabetes, and multiple sclerosis.

- 21. The method of claim 19, wherein said disorders involving an autoimmune component are selected from the group consisting of allograft transplantation rejection and xenograft transplantion rejection.
- 22. The method of claim 19, wherein said neoplastic disease is selected from the group consisting of renal cancer, ovarian cancer, lung cancer, glioma and leukemia.
- 23. A method of inactivating antigen-specific T cells in an individual in need of such treatment, comprising the step of administering to said individual an effective amount of a compound of structure

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II

wherein n_1 is 1-5;

X is O or NH;

Y is CH2, O, S, or NR;

wherein R is selected from the group consisting of hydrogen, a straight-chain aliphatic group, a branched-chain aliphatic group and an alicyclic group; and

R' is selected from the group consisting of hydrogen, methyl and ethyl;

or a pharmaceutically acceptable salt thereof.

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24. The method of claim 23, wherein said compound is 2-(4-morpholinyl)ethyl butanamide or a pharmaceutically acceptable salt thereof.

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25. The method of claim 23, wherein said compound is 2(4-morpholinyl)ethyl butanoate or a pharmaceutically acceptable salt thereof.

26. The method of claim 23, wherein inactivation of antigen-specific T cells is useful in the prophylaxis or therapeutic treatment of autoimmune diseases, disorders involving an autoimmune component or neoplastic diseases.

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27. The method of claim 26, wherein said autoimmune diseases are selected from the group consisting of rheumatoid arthritis, systemic lupus erythematosus, diabetes, and multiple sclerosis.

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- 28. The method of claim 26, wherein said disorders involving an autoimmune component are selected from the group consisting of allograft transplantation rejection and xenograft transplantion rejection.
- 29. The method of claim 26, wherein said neoplastic disease is selected from the group consisting of renal cancer, ovarian cancer, lung cancer, glioma and leukemia.

30. A method of inactivating antigen-specific T cells in an individual in need of such treatment, comprising the step of administering to said individual an effective amount of a compound of structure

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III

wherein n_1 is 1 to 5; n_2 is 1 to 4;

X is O or NH; and

R' is selected from the group consisting of hydrogen, methyl and ethyl;

or a pharmaceutically acceptable salt thereof.

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31. The method of claim 30, wherein said compound is 2-(4-butanoylpiperazinyl)ethyl butanoate or a pharmaceutically acceptable salt thereof.

32. The method of claim 30, wherein inactivation of antigen-specific T cells is useful in the prophylaxis or therapeutic treatment of autoimmune diseases, disorders involving an autoimmune component or neoplastic diseases.

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33. The method of claim 30, wherein said autoimmune diseases are selected from the group consisting of rheumatoid arthritis, systemic lupus erythematosus, diabetes, and multiple sclerosis.

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- 34. The method of claim 30, wherein said disorders involving an autoimmune component are selected from the group consisting of allograft transplantation rejection and xenograft transplantion rejection.
- 35. The method of claim 30, wherein said neoplastic disease is selected from the group consisting of renal cancer, ovarian cancer, lung cancer, glioma and leukemia.

36. A method of inactivating antigen-specific T cells in an individual in need of such treatment, comprising the step of administering to said individual an effective amount of a compound of structure

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$$R - N$$
 $R - N$
 $R - N$
 A
 C
 $CH_2 - CH_2 - CH_3$
 CH_2
 CH_2

IV

wherein n_2 is 1 to 4;

10 X is O or NH;

R is selected from the group consisting of hydrogen, a straightchain aliphatic group, a branched-chain aliphatic group and an alicyclic group;

R' is selected from the group consisting of hydrogen, methyl and ethyl; wherein X and R' are independently optionally substituted at positions 2, 3, or 4 of the ring structure; or a pharmaceutically acceptable salt thereof.

37. The method of claim 36, wherein said compound is 120 methyl-4-piperidinyl butanoate or a pharmaceutically acceptable salt thereof.

38. The method of claim 36, wherein inactivation of antigen-specific T cells is useful in the prophylaxis or therapeutic treatment of autoimmune diseases, disorders involving an autoimmune component or neoplastic diseases.

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39. The method of claim 36, wherein said autoimmune diseases are selected from the group consisting of rheumatoid arthritis, systemic lupus erythematosus, diabetes, and multiple sclerosis.

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40. The method of claim 36, wherein said disorders involving an autoimmune component are selected from the group consisting of allograft transplantation rejection and xenograft transplantion rejection.

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41. The method of claim 36, wherein said neoplastic disease is selected from the group consisting of of renal cancer, ovarian cancer, lung cancer, glioma and leukemia.